

CLAIMS

1. A method for preventing crystallization of pesticidal compositions during application, comprising adding a lactate ester as a crystallization prevention agent to the composition.

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2. A method according to claim 1 wherein the lactic acid ester is selected from among a group comprising of C₄ to C₁₂ saturated and unsaturated alkyl, C₄ to C₁₂ saturated and unsaturated cycloalkyl and C₄ to C₁₂ saturated and unsaturated branched alkyl lactates and mixtures thereof.

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3. A method according to claim 2 wherein the lactate ester is selected from among a group comprising of 2-ethyl hexyl lactate, cyclohexyl lactate, 2-methylcyclohexyl lactate, heptyl lactate, octyl lactate and mixtures thereof.

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4. A method according to claim 1 wherein the lactate ester is added to a pesticidal composition so that the lactate ester is 3% to 80% of the total composition.

5. A method according to claim 4 wherein the lactate ester is added to a pesticidal composition so that the lactate ester is 20% to 60% of the total composition.

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6. A method according to claim 1 wherein a lactate ester is added to a pesticidal composition so that the weight ratio between the pesticide and the lactate ester is from 1:0.1 to 1:5.

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7. A method according to claim 6 wherein a lactate ester is added to a pesticidal composition so that the weight ratio between the pesticide and the lactate ester is from 1:1 to 1:4.

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8. A method according to any one of claims 1 to 7 wherein a rosin derivative is further added.

9. A method according to claim 8 wherein the rosin derivative is selected from among a group comprising of rosin gum, rosin esters, modified rosins, hydrogenated rosin esters, polymerized rosin esters and phenolic modified rosin esters or mixtures thereof.

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10. A method according to claim 8 wherein the Rosin derivative is added so that the Rosin derivative is 0.5% to 20% of the total pesticidal composition.

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11. A method according to claim 10 wherein the Rosin derivative is added so that the Rosin derivative is 1% to 10% of the total pesticidal composition.

12. A method according to claim 8 wherein the Rosin derivative may be added so that the weight ratio between the Rosin derivative and the pesticide is from 1:0.05 to 1:1.

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13. A method according to claim 12 wherein the Rosin derivative may be added so that the weight ratio between the Rosin derivative and the pesticide is from 1:0.1 to 1:0.5.

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14. A method according to any one of claims 1 to 13 wherein the pesticidal compositions contains as an active ingredient a pesticide selected from among a group comprising of epoxiconazole, tebuconazole, cyproconazole, prochloraz, penconazole, defenoconazole, flusilazole, metconazole, triadimenol, hexaconazole, flutriafol, triflumizole, fenbuconazole, bromuconazole, fluquinconazole, azaconazole, triticonazole, triadimefon and imibenconazole; strobilurin analogues, maneb, mancozeb, ziram, thiram and mixtures thereof.

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15. A liquid pesticidal composition comprising one or more pesticide as an active ingredient and a lactate ester as a crystal growth inhibitor.

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16. A composition according to claim 15 wherein the lactate ester is selected from among a group comprising of 2-ethyl hexyl lactate, cyclohexyl lactate, 2-methylcyclohexyl lactate, heptyl lactate, octyl lactate and mixtures thereof.
- 5 17. A composition according to claim 15 further comprising a Rosin derivative.
18. A composition according to claim 17 wherein the Rosin derivative is selected from among a group comprising of rosin gum, rosin esters, modified rosins, hydrogenated rosin esters, polymerized rosin esters and phenolic modified rosin esters or mixtures thereof.
- 10 19. A composition according to any of claims 15 and 17 wherein the pesticide is selected from among a group comprising of epoxiconazole, tebuconazole, cyproconazole, prochloraz, penconazole, defenoconazole, flusilazole, metconazole, triadimenol, hexaconazole, flutriafol, triflumizole, fenbuconazole, bromuconazole, fluquinconazole, azaconazole, triticonazole, triadimefon and imibenconazole; strobilurin analogues, maneb, mancozeb, ziram, thiram and mixtures thereof.
- 15 20. A composition according to claim 15 comprising 3% to 80% lactate ester.
- 20 21. A composition according to claim 20 comprising 1% to 10% Rosin derivative.
22. A composition according to claim 15 wherein the weight ratio between the pesticide and the lactate ester is from 1:0.1 to 1:5.
- 25 23. A composition according to claim 17 wherein the weight ratio between the pesticide and the Rosin derivative is from 1:0.05 to 1:1
- 30 24. A composition according to claim 17 comprising 1% to 10% Rosin derivative.

25. A composition according to claim 17 comprising 20% to 60% of a lactate ester selected from among a group comprising of 2-ethyl hexyl lactate, cyclohexyl lactate, 2-methylcyclohexyl lactate, heptyl lactate, octyl lactate and mixtures thereof and 1% to 10 % of rosin gum.

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26. A method as herein described and exemplified.
27. A composition as herein described and exemplified.